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In the Claims

Please amend Claims 1, 29, and 38, all as shown below. Applicant respectfully reserves

the right to prosecute any originally presented claims in a continuing or future application.

1. (Currently Amended) A method of searching a plurality of service provider content

repositories, comprising:

providing for the representation of the plurality of service provider content repositories as

a virtual content repository (VCR) that includes a content model, the content model including

a set of content nodes and a set of hierarchy of nodes such that a content node

is created for each of the plurality of service provider content repositories,

each content node identifies a service provider content repository, and each

content node is associated with its own content schema,

a hierarchy node is created for different types of content available in the plurality

of service provider content repositories, each hierarchy node is associated with one or

more of the set of content nodes, and each hierarchy node is associated with its own

hierarchy schema;

providing a plurality of application program interfaces (APIs), wherein each of the

plurality of APIs corresponds to at least one application from a plurality of applications, that

interface between the plurality of applications and the VCR wherein the APIs present a unified

view of the plurality of service provider content repositories;

wherein each one of the plurality of service provider content repositories implements a

service provider interface (SPI) that includes a set of interfaces and services that each service

provider repository implements and wherein each SPI enables each of the corresponding

service provider content repositories to access the VCR, such that each SPI interfaces between

the VCR and the corresponding service provider content repository;

displaying content nodes and hierarchy nodes of the VCR in each application to enable

searching of the VCR and the service provider content repositories associated therewith;

searching the VCR for information that satisfies a search expression, including searching

the VCR and the service provider content repositories associated therewith wherein the search

expression is mapped by the APIs to each SPI to search across multiple content repositories

and wherein content caches are used to buffer search results from recently accessed content

nodes or hierarchy nodes; and

providing search results.

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2. (Canceled).

3. (Previously Presented) The method of claim 1 wherein searching the VCR includes:

searching each of the plurality of service provider content repositories.

4. (Original) The method of claim 1 wherein:

the search expression can include at least one of: a logical expression, a Boolean

operator, a nested expression, an object name, a function/method call, a mathematical function,

a mathematical operator, a string operator, an image operator, and Structured Query Language

(SQL).

5. (Previously Presented) The method of claim 1 wherein providing search results

includes:

combining the results of searching each one of the plurality of service provider content

repositories.

6. (Original) The method of claim 1 wherein providing search results includes:

caching the search results.

7. (Previously Presented) The method of claim 1 wherein providing for the representation

of the plurality of service provider content repositories as a VCR includes:

extending the content model to store information about the content model in the plurality

of service provider content repositories.

8. (Previously Presented) The method of claim 7 wherein:

the content model provides a uniform representation of content for the plurality of service

provider content repositories.

9. (Canceled).

10. (Previously Presented) The method of claim 1 wherein searching the VCR for

information includes:

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searching one or more of the content nodes, the content node schemas, the hierarchy nodes, and the hierarchy node schemas.

11-28. (Canceled).

29. (Currently Amended) A computer readable medium for searching a plurality of service

provider content repositories, the computer readable medium having instructions stored thereon

that when executed by one or more processors on the computer cause the computer to perform

the steps of:

providing for the representation of the plurality of service provider content repositories as

a virtual content repository (VCR) that includes a content model, wherein providing comprises

the substeps of:

implementing by each one of the plurality of service provider content repositories

a service provider interface (SPI) that includes a set of interfaces and services and

wherein each SPI enables each of the corresponding service provider content

repositories to access the VCR;

interfacing by the SPI between the VCR and the corresponding service provider

content repository;

creating a content node for each of the plurality of service provider content

repositories, such that each node identifies a service provider content repository;

associating each content node with its own schema;

creating a hierarchy node for different types of content available in the plurality of

service provider content repositories;

associating each hierarchy node with one or more content nodes and

associating each hierarchy node with its own schema;

providing a plurality of application program interfaces (APIs), wherein each of the

plurality of APIs corresponds to at least one application from a plurality of applications,

that interface between the plurality of applications and the VCR wherein the APIs

present a unified view of the plurality of service provider content repositories;

displaying content nodes and hierarchy nodes of the VCR in each application to

enable searching of the VCR and the service provider content repositories associated

therewith;

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searching by the VCR for information that satisfies a search expression, including

searching the VCR and the service provider content repositories associated therewith

wherein the search expression is mapped by the APIs to each SPI to search across

multiple content repositories and wherein content caches are used to buffer search

results from recently accessed nodes; and

providing search results.

30. (Previously Presented) The computer readable medium of claim 29, wherein searching

the VCR includes:

searching each of the plurality of service provider content repositories.

31. (Previously Presented) The computer readable medium of claim 29 wherein:

the search expression can include at least one of: a logical expression, a Boolean

operator, a nested expression, an object name, a function/method call, a mathematical function,

a mathematical operator, a string operator, an image operator, and Structured Query Language

(SQL).

32. (Previously Presented) The computer readable medium of claim 29, wherein providing

search results includes:

combining the results of searching each one of the plurality of service provider service

provider content repositories.

33. (Previously Presented) The computer readable medium of claim 29, wherein providing

search results includes:

caching the search results.

34. (Previously Presented) The computer readable medium of claim 29, wherein providing

for the representation of the plurality of service provider content repositories as a VCR includes:

extending the content model to store information about the content model in the plurality

of service provider content repositories.

35. (Previously Presented) The computer readable medium of claim 34 wherein:

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the content model provides a uniform representation of content for the plurality of service provider content repositories.

36. (Canceled).

37. (Previously Presented) The computer readable medium of claim 29, wherein searching

the VCR for information includes:

searching one or more of the content nodes, the content node schemas, the hierarchy

nodes, and the hierarchy node schemas.

38. (Currently Amended) A method of searching a plurality of service provider content

repositories, comprising:

providing for the representation of the plurality of service provider content repositories as

a virtual content repository (VCR) that includes a content model, wherein providing comprises

the substeps of:

implementing by each one of the plurality of service provider content repositories

a service provider interface (SPI) that includes a set of interfaces and services and

wherein each SPI enables each of the corresponding service provider content

repositories to access the VCR;

interfacing by the SPI between the VCR and the corresponding service provider

content repository;

creating a content node for each of the plurality of service provider content

repositories, such that each node identifies a service provider content repository;

associating each content node with its own schema;

creating a hierarchy node for different types of content available in the plurality of

service provider content repositories;

associating each hierarchy node with one or more content nodes and

associating each hierarchy node with its own schema;

providing a plurality of application program interfaces (APIs), wherein each of the

plurality of APIs corresponds to at least one application from a plurality of applications,

that interface between the plurality of applications and the VCR wherein the APIs

present a unified view of the plurality of service provider content repositories;

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displaying content nodes and hierarchy nodes of the VCR in an application to

enable searching of the VCR and the service provider content repositories associated

therewith;

searching by the VCR for information that satisfies a search expression, including

searching the VCR and the service provider content repositories associated therewith

wherein the search expression is mapped by the APIs to each SPI to search across

multiple content repositories and wherein content caches are used to buffer search

results from recently accessed nodes; and

providing search results.

39. (Previously Presented) The method of claim 38 wherein searching the VCR includes:

searching each of the plurality of service provider content repositories.

40. (Previously Presented) The method of claim 38 wherein:

the search expression can include at least one of: a logical expression, a Boolean

operator, a nested expression, an object name, a function/method call, a mathematical function,

a mathematical operator, a string operator, an image operator, and Structured Query Language

(SQL).

41. (Previously Presented) The method of claim 38 wherein providing search results

includes:

combining the results of searching each one of the plurality of service provider content

repositories.

42. (Previously Presented) The method of claim 38 wherein providing search results

includes:

caching the search results.

43. (Previously Presented) The method of claim 38 wherein providing for the representation

of the plurality of content repositories as a VCR includes:

extending a VCR content model to include information in the plurality of service provider

content repositories.

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44. (Previously Presented) The method of claim 43 wherein:

the content model provides a uniform representation of content for the plurality of service provider content repositories.

45. (Previously Presented) The method of claim 18 wherein searching the VCR for information includes:

searching one or more of the content nodes, the content node schemas, the hierarchy nodes, and the hierarchy node schemas.